

Size:	1,563 acres
Mission:	Provide logistics support for assigned ships and service craft; perform authorized work in connection with construction, alteration, dry docking, and outfitting of ships and craft assigned; perform manufacturing, research, development, and test work
HRS Score:	NA
IAG Status:	None
Contaminants:	Chlorinated solvents, solvents, acids, blasting grit, paint, heavy metals, industrial wastewater, and industrial liquid waste
Media Affected:	Groundwater, surface water, sediment, and soil
Funding to Date:	\$46.4 million
Estimated Cost to Completion (Completion Year):	\$13.9 million (FY2009)
Final Remedy in Place or Response Complete Date for BRAC Sites:	FY2009



Long Beach, California

Restoration Background

The Long Beach Naval Complex consists of the Long Beach Naval Shipyard (NSY), the Naval Station (NS) Long Beach, and the Long Beach Naval Hospital (NAVHOSP). The BRAC Commission recommended closure of the NAVHOSP, the NS, and associated housing areas in FY91, and closure occurred in FY94. Closure of the NSY and associated housing areas was recommended in July 1993 and occurred in September 1997.

NSY and NS operations that contributed to contamination include ship and vehicle repair and maintenance, utility maintenance and operation, support shops, storage of petroleum products and hazardous materials, laundry and dry cleaning, steam plant operations, and air compressor operations. Portions of housing areas associated with the NSY were used to dispose of ship wastes, drilling mud, and construction debris. The primary sites of concern are disposal pits into which a variety of wastes were deposited.

A Removal Site Evaluation was completed at NS Site 6A to support an interim lease to the Port of Los Angeles. It concluded that no action was necessary for industrial use of the site. The most difficult cleanup challenge occurred at Site 7, the NS and NSY harbor. To streamline the study process, Phases I and II of the Remedial Investigation and Feasibility Study (RI/FS) were combined.

In FY94, the installation formed a BRAC cleanup team (BCT), which completed a BRAC Cleanup Plan (BCP) and the Environmental Baseline Survey (EBS) for NS and NAVHOSP. The BCT continues to meet monthly and produces BCPs annually. The joint NS and NSY technical review committee was converted to a Restoration Advisory Board (RAB). A separate RAB for the San Pedro housing area and the Defense Fuel Support Point was formed in FY95.

In FY96, the City of Long Beach completed the land reuse plan for NSY. The installation completed the RI for NS Sites 1 through 6A and the Engineering Evaluation and Cost Analysis (EE/CA) and Action Memorandum (AM) for NS Site 3. The removal of arsenic-contaminated soil from Site 3 also was completed. At the former NS gas station, the installation began operating a soil vapor and liquid extraction and bioremediation system to clean up petroleum contaminants in soil and groundwater.

In FY97, the installation began an Interim Remedial Action (IRA) at Sites 2, 11, and 12 (Palos Verdes housing) and Site 5 (San Pedro housing). The groundwater investigation for Site 6A began, and cleanup of Site 6B NSY was completed. EE/CAs for four sites and an EBS for NSY housing were completed. NSY was closed, and an EBS was written for NS. Streamlined sampling and combined phases enhanced the process of delineating contamination.

FY98 Restoration Progress

The installation completed an RI for Sites 8 through 13, an IRA at four sites, a Site Inspection for Site 14, and the FS for Sites 3 through 6A. The FS for Sites 8, 10, and 11 was drafted but postponed in favor of focusing resources on the Record of Decision (ROD) for Sites 3 through 6A and the FS, Proposed Plan (PP), and ROD for Sites 1 and 2. The FS for Sites 9, 12, and 13 was delayed because additional fieldwork was required. Because of changes in the reuse and conveyance schedules, phytoremediation was not implemented at Sites 1 and 2 and the IRA was postponed or partially omitted. By focusing on the Remedial Action (RA) process for Sites 1 and 2, the installation plans to achieve earlier ROD completion and property transfer dates. The installation issued a draft ROD for Sites 3 through 6A, an EE/CA for Site 14, and a draft FS for Sites 1 and 2. The RI for Site 7 and the PP for Sites 3 through 6A were finalized. The

installation also held a 30-day public review of the PP for Sites 3 through 6A.

The RAB reviewed documents, provided input, and attended site tours and educational workshops. Working group meetings between the BCT and the project team occur monthly. Team-building sessions were held with regulatory participants to coordinate scheduling and forecast workloads.

Plan of Action

- Complete ROD for Sites 3 through 6A and FS for Site 7 in FY99
- Complete FS, PP, and ROD for Sites 1 and 2 in FY99
- Complete FS, PP, and ROD for Sites 8, 10, and 11 in FY99
- Complete FS and PP for Sites 9, 12, and 13 in FY99
- Complete AM for Site 14 in FY99
- Complete PP and ROD for Site 7 in FY00
- Complete ROD and RD for Sites 9, 12, and 13 in FY00
- Complete RA for Sites 12 and 13 and IRA for Site 14 in FY00

SITES ACHIEVING RIP OR RC PER FISCAL YEAR

